## ABSTRACT OF THE DISCLOSURE

The present invention provides a bias generation circuit in which the voltage of
electrically isolated circuits are stabilized by providing a photovoltaic diode in each
circuit, a common light source uniformly positioned to provide equivalent energy to each
photovoltaic diode and an operational amplifier, configured with a capacitor as an
integration circuit, driving the common light source, wherein one isolated circuit provides
feedback to the amplifier, such that variations in the voltage in the isolated circuit causes
the amplifier to provide an adjusted signal to the common light source, adjusting the
energy output to compensate for voltage variations simultaneously, yet independently
occurring in each isolated photovoltaic diode circuit. Such bias voltage circuit may be
used with chromatographic ionization detectors as well other devices.